

"APPROVED FOR RELEASE: 06/19/2000

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КУР. 10, 11.

16(1) PHASE I BOOK EXPLOITATION SOV/2660

Vassoyuzny matematicheskiy s'yezd. 3rd, Moscow, 1956
Trudy. t. 4: Kratkoye soobsheniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959. 247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskii Institut.
Tech. Ed.: G.M. Shevchenko; Editorial Board: A.A. Abramov, V.G. Boltyanskiy, A.M. Vasil'ev, B.V. Medvedev, A.D. Myshkis, S.K. Nikol'skiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, K.K. Rylikov, P. L. Ul'yanov, V.A. Uspenskiy, M.O. Chetaev, G. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.
COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit an opinion of the editor, the title of the paper is cited and, if the paper was printed in the previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover various topics in number theory, algebra, differential and integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Краткое сообщение
о поведении
решения уравнения параболического типа 154
 Миронда, К. (Italy). New results of Italian mathematicians in the theory of partial differential equations 155
 Занаоне, Г. (Italy), and М. Конти (Italy). On the equation $xy'-Ay^k-B(x)$ 156
 Теодореску, М. (Romania). On the algebraic singularity of logarithmic type of elementary solutions of linear equations of higher orders 161
 Section on the Theory of Functions
 Карамзина, И. (Yugoslavia). On the summing of Fourier series of continuous functions 162
 Букина, В. (Yugoslavia). On the Suslin problem 162
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 Букина, В. (Yugoslavia). Generalized metric spaces 197

PHASE I BOOK EXPLOITATION YUG/5713

Milojević, Aleksandar, Vladeta Urošević, and Milan Kurepa

Šta nam nude izotopi (What Isotopes Offer Us) [Belgrade, Export Press, 1960] 64 p. Number of copies printed not given.

Sponsoring Agency: Savezna komisija za nuklearnu energiju.

Eds.: Vojislav Babić, Engineer, Ljubomir Barbarić, Engineer, and Salom Šuica, Engineer; Ed. of Publishing House: Aleksandar Spasić; Tech. Ed.: Živorad Atanacković.

PURPOSE : This book is intended for the general reader interested in the production and practical applications of radioactive isotopes.

COVERAGE: The authors explain in simple, popular language the elements of nuclear theory and nuclear reactions which produce radioactive isotopes. The operating principle of accelerators and nuclear reactors is discussed as well as measure-

Card 1/3

What Isotopes Offer Us

YUG/5713

ment methods, production technique, and process control and automation in the production of radioactive isotopes, and their practical applications in the various branches of science, medicine, and the national economy. The text is illustrated with numerous diagrams, including two photographs. No personalities are mentioned. There are no references.

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KUREPA, M.; UROSEVIC, V.; PETROVIC, B.

Problems of vacuum technique in the production of gas detectors.
Nova prozv 13 no.1:100-102. '62.

UROSEVIO, Vladeta, dipl. fiz. hem., assistant (Beograd, Bulevar Revolucije 87/II);
KUKUPA, Milan, dipl. fiz. hem., assistant

Determination of the optimum physical parameters of gamma absorption densitometers. Tehnika Jug 17 no.2:217-220 F '62.

1. Institute for Nuclear Science "Boris Kidric", Beograd-Vinca.

(Densitometers)

KUREPA, M. V.

Comparison of experimental and theoretical results for ionization cross sections of inert gases. Bul Inst Nucl 14 no. 4: 187-197 0'63.

1. Department of Physics, Boris Kidric Institute of Nuclear Sciences, Beograd-Vinca.

Kurda, Sotofar. Peano's transformations and Suslin's

2

form a semi-group in the sense that if $a, b \in D$, then $a \cdot b \in D$. Let \mathcal{I} be a subset of \mathcal{D} and let μ be a measure on \mathcal{I} . Let ν be a measure on \mathcal{D} . Then ν is said to be μ -invariant if $\nu(A) = \mu(A)$ for all $A \in \mathcal{I}$.

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7156:

Kurepa, Sycotar. A cosine functional equation in n -dimensional vector space. Glasnik Mat.-Fiz. Astr. Društvo Mat. Fiz. Hrvatske. Ser. II. 13 (1958), 169-189. (Serbo-Croatian summary) 2

A continuous real function of the real variable t , if it is not identically zero or one and satisfies the functional equation

$$\phi(s+t) + \phi(s-t) = 2\phi(s)\phi(t),$$

is of one of the forms $\phi(t) = \cos at$ or $\phi(t) = \cosh at$, where a is a constant. In this paper the same functional equation is investigated, on the assumption that the values $\phi(t)$ are linear transformations in a real n -dimensional vector space, and the variables s, t range over

the class of numbers of the form $l/2^k$, where l is an integer and k is a nonnegative integer. We cite two of the theorems. If $\phi(2^{-k}) \rightarrow I$ (the identity) as $k \rightarrow +\infty$, and if $\phi(2^{-k})$ does not have l as eigenvalue when k is sufficiently large, then $\phi(t) = \cos tA$ for a suitable linear transformation A (the cosine defined by an infinite series). If now we assume $\phi(t)$ defined for all real t , $\phi(0) = I$, and $\phi(t)$ continuous and uniformly bounded, then with a suitable basis \mathcal{A} can be taken to have a diagonal matrix representation.

A. E. Taylor (Los Angeles, Calif.)

KUREPA, S.

Functional equations for invariants of a matrix. In English. p. 97

GLASNIK MATEMATICKO-FIZICKI I ASTRONOMSKI. PERIODICUM MATHEMATICO-
PHYSICUM ET ASTRONOMICUM. (Društvo matematičara i fizičara Hrvatske
i Prirodoslovno-matematički fakultet Sveučilišta u Zagrebu) Zagreb,
Yugoslavia. Vol. 14, no. 2, 1959

Monthly list of East European Accessions (EEAI) LC Vol. 9, no. 2
Feb. 1960

Uncl.

KUREPA, Svetozar (Zagreb)

Note on the difference set of two measurable sets in E^n . Gl mat fiz
Hrv 15 no.2:99-105 '60. (EEAI 10:9)

1. Faculty of Sciences, Department of Mathematics, Zagreb.

(Aggregates) (Functional equations)

KUREPA, Svetozar, (Zagreb)

On the normal n -th root of a selfadjoint operator. In English.
Gl mat fiz Hrv 15 no.3:163-169 '60. (EEAI 10:8)
(Square root) (Matrices) (Spaces, Generalized)

KUREPA, S. (Zagreb)

On the functional equation $f(x+y)f(x-y) = f^2(x) - f^2(y)$.

In English. Annales pol math 10 no.1:1-5 '61. (EEAI 10:8)

1. Prirodoslovno-Matematički Fakultet, Zagreb. Department of Mathematics.

(Functional equations)

KUREPA, S. (Zagreb)

On the functional equation $f(x+y)f(x-y) = f^2(x) - f^2(y)$. Annales
pol math 10 no.1:1-5 '61. (BEAI 10:5)

1. Pridoslovno-Matematicki Fakultet, Zagreb.
(Functional equations) (Hyperspace)

GROSSWALD, Emil; KUREPA, Svetozar

A theorem on gap series. Glas mat fiz Hrv 16 no.3/4:203-204
'61.

KUREPA, Svetozar

On representations of the commutation and anticommutation rules
of the quantum theory of fields. Rad mat fiz teh JAZU
no.319:121-145 '61.

KUREPA, S. (Zagreb)

A cosine functional equation in the Banach algebras and the roots of the elements of the Banach algebras. Mat lapok 13 no.1/2:203-204 '62.

KUREPA, Svetozar

On roots of an element of a Banach algebra. Publ Inst math
SANU 1(15) '61 [publ. '62].

KUREPA, Svetozar

On the functional equation: $T_1(t:s) T_2(t-s) T_3(t) T_4(s)$.
Publ Inst math SANU 2(16):99-108 '62 [publ. '63].

KUREPA, Svetozar

"Matricea" by Tatomir P. Andelic. Reviewed by Svetozar Kurepa.
Glas mat fiz Hrv 17 no.3/4:255 '62 [publ. '63]

KUREPA, SVETOZAR (Zagreb)

On a triangular form of a family of commuting operators. Glas
mat fiz Hrv 18 no.1/2:39-42 '63.

On ergodic elements in Banach algebras. 43-47

On operators-roots of an analytic function. 49-51

Logarithms of spectral type operators. 53-57

1. Institute of Mathematics, University of Zagreb.

KUREPA, Svetozar

A cosine functional equation in Banach algebras. Acta math Szeged
23 no.3/4:255-267 '62.

1. University of Zagreb, Yugoslavia. Submitted July 13, 1961.

21(7), 24(5)

SOV/56-36-6-15/66

AUTHORS: Kurepin, A. B., Neudachin, V. G.

TITLE: Comparison of the Differential Cross Sections of the Reactions (dp) and (dt) (Sravneniye differentsial'nykh secheniy re-aktsiy (dp) i (d.t))

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 6, pp 1725 - 1730 (USSR)

ABSTRACT: From the analysis of the angular distributions of tritons from (d,t) reaction there results an analogy, in the case of deuteron energies of several megavolts, between the (d,t)- and the (d,p)-mechanism, i.e. stripping reactions are concerned. The authors of the present paper investigate the problems connected herewith, viz.: a) comparison of the "reduced widths" γ^2 from (d,p) and (d,t) reactions, and b) that part of the triton wave function which corresponds to the "deuteron + neutron" state; the results obtained are compared with those obtained by other authors (Refs 1,2). As shown by an analysis of experimental data obtained in the course of recent years, (V.B. Belyayev, B. N. Zakhar'yev, and V. G. Neudachin - publication will follow), the reduced width γ in

Card 1/3

Comparison of the Differential Cross Sections of the
Reactions (dp) and (dt)

SOV/56-36-6-15/66

Butler's formulas has not the significance of an "amplitude square of the nucleon wave function on the nuclear surface" because it does not remain constant in the case of a variation of deuteron energy, but that it changes very abruptly. It is possible to explain this by the influence exercised by exchange effects in the stripping reaction (Ref 3). The authors consider the (d,t) reaction to be a special case of a stripping reaction between two complex systems and determine (in Born's approximation for plane waves) the reduced widths for the (d,t) and (d,p) reactions by comparing various triton wave functions (e.g. the Irving and the Gauss form) (Fig 1, Table 1); $\phi^2(k)$ - Fourier - Vlasov and Oglobin (Ref 14, Fig 2). The neutron wave function, which, with respect to the deuteron in the triton shows the best agreement with experimental results, is given. For the probability of finding the triton in the (deuteron+neutron) state 0.4 is given (accurately: $0.37 \pm 20\%$), which considerably exceeds the value of 0.11 found by Werner (Ref 1). In table 2 the data of various (d,t) reactions on light elements (Refs 9-14) are compared, and from the A_0^2 -values the mean value (0.37) is determined. The authors

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Comparison of the Differential Cross Sections of the
Reactions (dp) and (dt)

SOV/56-36-6-15/66

finally thank N. A. Vlasov and A. A. Ogloblin for discussions.
There are 3 figures, 2 tables, and 19 references, 2 of which
are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universi-
teta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: November 24, 1958

Card 3/3

S/056/63/044/002/033/065
B102/B166

AUTHORS: Dalashko, Yu. G., Kurepin, A. B.

TITLE: Phase shift analysis of elastic scattering of protons from tritium near the $T(p,n)He^3$ reaction threshold

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 610-612

TEXT: In order to check the results obtained by R. M. Frank and J. L. Gammel (Phys. Rev. 99, 1406, 1955) the authors carry out a phase shift analysis for 990 kev protons. Both the elastic-scattering cross-section anomalies near the reaction threshold and the complex angular distribution due to Rutherford scattering are taken into account. According to A. I. Baz' (ZhETF, 33, 923, 1957) the cross-section variation near the threshold can be written as

$$4\pi\Delta\sigma_3^+ = -(2kR \sin \xi - 1) X + 2kR \cos \xi Y - \sigma_r - D \cos \theta, \quad (1)$$

$$4\pi\Delta\sigma_3^- = -2kR \cos \xi X - (2kR \sin \xi - 1) Y + B \cos \theta.$$

Card 1/4

Phase shift analysis of ...

S/056/63/044/002/033/065
B102/B106

if only s- and p-waves are considered. $\Delta\sigma_s^+$ characterizes the variation of the cross-section in the interval ΔE above and below the threshold E_n in the c.m.s., σ_r is the total cross-section at $E_n + \Delta E$, k is the proton wave number at $E = E_n$, $R = z_1 z_2 e^2 / 4E_n \sin^2(\psi/2)$ is the Rutherford scattering amplitude, δ is the phase of Rutherford scattering at $E = E_n$, ψ is the scattering angle in the c.m.s., D and B depend on the p-phase,

$$X = {}^1\sigma_r \cos 2\delta_0 + {}^3\sigma_r \cos 2\delta_0, \quad Y = {}^1\sigma_r \sin 2\delta_0 + {}^3\sigma_r \sin 2\delta_0 \quad (2),$$

${}^1\sigma_r$, ${}^3\sigma_r$, ${}^1\delta_0$, ${}^3\delta_0$ are cross-sections and phases for the states 1S_0 and 3S_1 . The $\Delta\sigma_s$ values were taken from points 30 kev below and above E_n ; the cross-section itself was taken 100 mb; for X and Y the following was obtained: $X = (-1.2 \pm 0.5) \cdot 10^{-25}$ and $Y = (0.1 \pm 0.6) \cdot 10^{-25}$. With

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B102/B106

Phase shift analysis of ...

$^1\sigma_r + ^3\sigma_r = \sigma_r \exp = 1.15 \cdot 10^{-25}$, the result of (1) might correspond to either (a) $^1\delta_0 \approx ^3\delta_0 \approx \pi/2$ or (b) $^3\delta_0 \approx \pi/2$, $^1\sigma_r \approx 0$, or (c) $^1\delta_0 \approx \pi/2$,

$^3\sigma_r \approx 0$. As the phase shift analysis, carried out with
 $X_0 = \frac{1}{4} \cos 2^1\delta_0 + \frac{3}{4} \cos 2^3\delta_0$, $Y_0 = \frac{1}{4} \sin 2^1\delta_0 + \frac{3}{4} \sin 2^3\delta_0$,

$$X_1 = \frac{1}{4} \cos 2^1\delta_1 + \frac{3}{4} \cos 2^3\delta_1, Y_1 = \frac{1}{4} \sin 2^1\delta_1 + \frac{3}{4} \sin 2^3\delta_1, \quad (4),$$

$$Z = \frac{1}{4} \cos 2(\psi + ^1\delta_1 - ^1\delta_0) + \frac{3}{4} \cos 2(\psi + ^3\delta_1 - ^3\delta_0)$$

shows, only (c) can be used. For $E_p = 990$ kev the following four solution systems are obtained:

$^1\delta_0$	$^3\delta_0$	$^1\delta_1$	$^3\delta_1$
90°	-22.5°	-2°	13°
28°	-40°	-2°	13°
100°	40°	-13°	-5°
-50°	60°	-15°	-4°

A reduction to two solutions (corresponding to the 1S_0 resonance) can be attained by using data on the threshold anomalies. The results obtained Card 3/4

Phase shift analysis of ...

S/056/63/044/002/033/065
B102/B186

differ somewhat from those of Frank and Gammel and describe the scattering cross-section much better.

ASSOCIATION: Fizicheskiy inatitut im. P. N. Lebedeva Akademii nauk SSSR
(Physics Institute imeni P. N. Lebedev of the Academy of
Sciences USSR)

SUBMITTED: August 2, 1962

Card 4/4

KUREPIN, A.B.; MADUYEV, V.L.

Proportional low-pressure counters. Prib.i tekhn. eksp. 6 (MIRA 14:10)
no.5:48-50 S-0 '61.

1. Fizicheskiy institut AN SSSR.
(Nuclear counters)

05089

S/056/60/038/006/032/049/XX
B006/B070

246510

AUTHORS: Komarov, V. V., Kurepin, A. B., Popova, A. M.

TITLE: The Possibility of Using the Reaction $(n, 2n)$ in Nuclear Spectroscopy

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960. Vol. 38, No. 6, pp. 1824-1828

TEXT: Butler has already shown that stripping and pickup reactions can be used to obtain data on nuclear energy levels. In view of this, the reaction $(n, 2n)$ is now studied in the present paper; the reaction is considered a stripping reaction. In previous papers it has been shown that narrow peaks appear in the energy distributions of reaction products if several particles are emitted including two neutrons, because of the interaction of the two neutrons in the final singlet state. If the strong interaction of the neutrons with small relative energies is considered, a stripping reaction can be assumed, that is, a simultaneous emission of two neutrons in about the same direction caused by the interaction of the incident

X

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84689

The Possibility of Using the Reaction
(n,2n) in Nuclear Spectroscopy

S/056/60/039/006/032/049/XX
B006/B070

neutron with the nucleus. Peaks can appear in the total momentum distribution of the two emitted neutrons, corresponding to the energy levels of the nucleus $A-1$ in the reaction $A(n,2n)A-1$. It is shown by specific examples that the dependence of the areas of the peaks on the direction of motion of the center of mass of the two neutrons has the same character as in stripping and pickup reactions. It can be shown that if instead of (n,d) or (p,d) reactions (n,2n) reaction be used, the form of the angular distribution curves will give information on the characteristics of the energy levels of medium and heavy nuclei since for such nuclei the Coulomb effects in ordinary pickup reactions have a great significance. This fact was brought to the notice of the present authors by V. G. Neizhichin. The angular distribution of the center of mass of the two neutrons emitted simultaneously is calculated by taking into account their interaction in the final state. The results are discussed with the help of two examples. The angular distribution of the center of mass of the two neutrons emitted in the reaction $Be^9(n,2n)Be^8$ is calculated for the case when the incident neutron has an energy of 14 Mev. In this reaction, the final nucleus is in an excited state of 2.9 Mev. The results

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The Possibility of Using the Reaction
(n,2n) in Nuclear Spectroscopy

S/056/60/038/006/032/010/XX
B006/3070

are shown in the two diagrams of Fig. 1. The second example taken is of the reaction $Pb^{208}(n,2n)Pb^{207}$, where the Pb^{207} nucleus is in an excited state of 1.63 Mev. Fig. 2 shows the angular distribution for $l=6$. The possibility of an experimental verification, and the difficulties involved in it are discussed. S. S. Vasil'yev is thanked for discussions. There are 2 figures and 11 references: 6 Soviet, 3 US, 1 British, and 1 Dutch.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: January 11, 1960

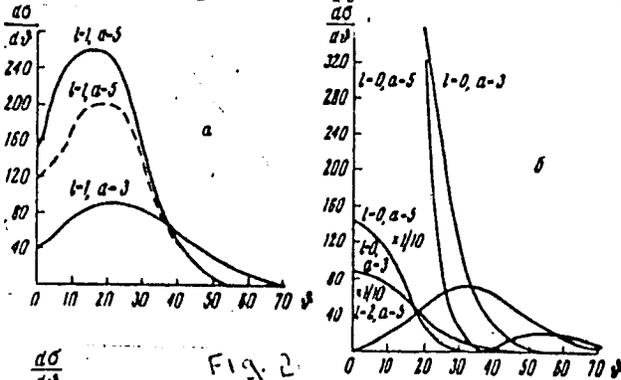
X

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84689

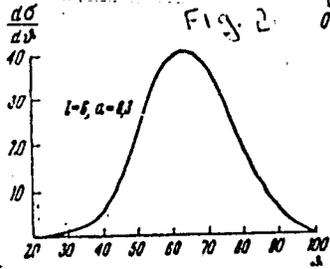
The Possibility of Using the Reaction (n,2n) in Nuclear Spectroscopy

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B006/B070



Legend to Fig. 1:
Angular distribution of
the center of mass of
the two interacting
neutrons from the reaction

$Be^9(n,2n)Be^8$ on the
2.9-Mev level of Be^8 ;
a: $l=1$, dashed line
calculated according to
Butler; b: $l=0$ and $l=2$.



Legend to Fig. 2: Angular distribution of
the center of mass of the two interacting
neutrons from the reaction

$Pb^{208}(n,2n)Pb^{207}$ on the 1.63-Mev level;
 $E_n = 14$ Mev; arbitrary units.

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S/048/60/024/009/010/015
B003/B063AUTHORS: Komarov, V. V., Kurepin, A. B., Popova, A. M.TITLE: Application of the (n,2n) Reaction¹⁹ in Nuclear Spectroscopy ¹⁹PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 9, pp. 1145-1148

TEXT: In the present article, the (n,2n) reaction is regarded as a pick-up reaction. Its application instead of the (p, d) and (n, d) reactions gives rise to the hope that data on the energy levels of nuclei can be obtained from the angular distribution curves in the ranges of medium-weight and heavy nuclei, and low energies. In these ranges, Coulomb effects play a large role and make it impossible to determine the characteristics of the energy levels with the aid of the usual pickup reactions, as was pointed out by V. G. Neudachin. A method of calculation is suggested. Its applicability is illustrated by calculating the angular distributions for the centers of mass of the two emitted neutrons from the $\text{Be}^9(n, 2n) \text{Be}^8$ reaction (Fig. 1). Bombardment of Be^9 with 14-Mev neutrons leads to the excitation of the 2.9-Mev level of Be^8 in this reaction.

Card 1/2

Application of the (n,2n) Reaction in
Nuclear Spectroscopy

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B063/B063

The pickup instant may be determined from a comparison of the experimental and calculated angular distributions (Curve a and Curve b, respectively). The calculated curve is shown in Fig. 2. Experimental measurements are uncomplicated as the distribution reaches its maximum at a sufficiently large angle. No special investigations were made to show the particular features of the angular distribution of neutrons from the (n,2n) reaction. There are 2 figures and 6 references: 5 Soviet. ✓

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gos. universiteta im. M. V. Lomonosova
(Scientific Research Institute of Nuclear Physics of
Moscow State University imeni M. V. Lomonosov)

Card 2/2

BALASHKO, Yu.G.; KUREPIN, A.B.

Phase shift analysis of elastic scattering of protons on tritium near the threshold of the reaction $T(p, n)He^3$.
Zhur. eksp. i teor. fiz. 44 no.2:610-612 F '63.

(MIRA 16:7)

1. Fizicheskii institut imeni Lebedeva AN SSSR.

FRANKE, Ya. G.; BARIT, I. Ya.; DUL'KOVA, L. S.; KURSPIN, A. B.

"Elastic Scattering of Protons on Tritium at Energies below the Threshold of the p,n Reaction and Excited States of He⁴."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

Inst of Physics im P.N. Lebedev, AS USSR

BALASHKO, Yu. G.; BARIT, I. Ya.; DULKOVA, L. S.; KUREPIN, A. B.

"Elastic p-T scattering below (p,n) threshold and the excited state in He⁴."

report submitted for Intl Conf on Low & Medium Energies Nuclear Physics,
Paris, 2-8 Jul 64.

Lebedev Inst, Moscow.

ACCESSION NR: AP4037609

S/0056/64/046/005/1903/1906

AUTHORS: Balashko, Yu. G.; Barit, I. Ya.; Dul'kova, L. S.; Kurepin, A. B.

TITLE: Elastic scattering of protons by tritium at energies below the threshold of the (p, n) reaction

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1903-1906

TOPIC TAGS: proton scattering, tritium, angular distribution, proton neutron reaction, excited state, helium

ABSTRACT: The cross section for elastic scattering of protons by tritium was measured at energies from 300 to 990 keV. The maximum number of the noticeable different angles was 8 (40--150° in the c.m.s.). A detailed description of the experiment and of the data reduction will be published in Izvestiya AN SSSR, ser. fiz. A phase shift analysis of the results of the measurements of the pT scatter-

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ing was carried out by the least-square method with the aid of an electronic computer, with account of only the s and p waves. and under the assumption that there is no spin-orbit interaction or a change in the spin of the channel. A phase shift analysis was also made with three and with two parameters. An increase in the number of parameters does not change essentially the average values of the phase shifts, and merely increases the limits of the errors. The resonance parameters obtained were used to calculate the cross section of the He^3 (n, p) reaction for thermal neutrons and the deviation of the energy variation of the reaction from the $1/v$ law at a neutron energy 30 keV. The corresponding values amount to 3100 b and 15%. The experimental value of the thermal cross section is 5400 b, and the deviation amounts to ~30%. An allowance of the contribution of the other channel can reconcile the absolute values of the thermal cross section, but it will increase the discrepancy observed in the energy dependence of the (n, p) reaction. The appearance of an excited He^4 level is demonstrated by the results, and the failure

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ACCESSION NR: AP4037609

to observe it in other investigations may have been due to experimental inaccuracy. The resonance parameters determined from the different interactions are in poor agreement with one another. Consequently the question of the values of the resonance parameters and the nature of the level cannot be regarded as completely explained. The authors are grateful to I. M. Frank and F. L. Shapiro for suggesting the topic, interest in the work, and a discussion of the results. Orig. art. has: 4 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 17Aug63

DATE ACQ: 09Jun64

ENCL: 01

SUB CODE: NP

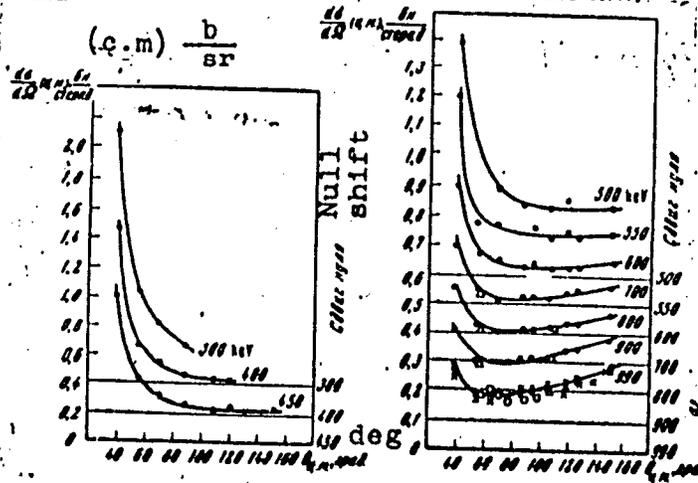
NR REF SOV: 004

OTHER: 009

Card 3/4

ACCESSION NR: AP4037609

ENCLOSURE: 01



Angular distribution of elastic pT scattering, in the c.m.s., for different proton energies. ● - present data; other data by others.

Card 4/4

BALASHKO, Yu.G.; BARIT, I.Ya.; DUL'KOVA, L.S.; KUREPIN, A.B.

Elastic scattering of protons on tritium at energies below
the (p,n)-reaction threshold. Izv. AN SSSR. Ser. fiz. 28
no.7:1124-1136 J1 '64 (MIRA 17:8)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.

L 1973-51 EWT(m)/EWA(h)

ACCESSION NR: AT5018591

UR/2504/65/033/000/0003/0065

88
31
21

AUTHOR: Kurepin, A. B. 11,44,55

TITLE: Investigation of the interaction of protons with tritium at energies above the threshold of the (p,n) reaction 11,44,55

SOURCE: AN SSSR. Fizicheskiy institut. Trudy, v. 33, 1965. Issledovaniye atomnogo yadra s pomoshch'yu zaryazhennykh chastits i neytronov (Investigation of the atomic nucleus using charged particles and neutrons), 3-65

TOPIC TAGS: proton scattering, elastic scattering, scattering cross section, tritium, triton bombardment, phase shift analysis

ABSTRACT: This is a dissertation for the degree of Candidate of Physico-mathematical Sciences, defended at the Physics Institute AN SSSR in June 1964. Its main result is a demonstration of the existence of resonant interaction between protons and tritium at low energies. The previously published data on the possible existence of an excited state of α particles with energy near 20 Mev and the published experimental data on elastic scattering of photons by tritium at low energies are first reviewed. A specially developed procedure for registration and analysis of low-energy charged particles described in detail. The equipment and procedure were checked by measuring the cross section for elastic scattering of

Card 1/3

L 1973-66

ACCESSION NR: AT5018591

36

protons by hydrogen in the 500--2200 kev range and yielded the previously known values for these cross sections. The article describes the details of these measurements, the procedure for recording and separating the elastically scattered particles, the determination of the differential cross section of the elastic p-T scattering, and a comparison of the measurement results with data by others. This is followed by an electronic-computer phase-shift analysis of the measurement results, with particular attention to elimination of some of the ambiguities in the phase-shift analysis. The results of the phase-shift analysis are then discussed in terms of the resonance theory, and the resonance parameters of the excited states of He^3 are determined. The angular distributions of elastic p-T scattering were measured in the range from 300 to 900 kev over a wide range of angles (40--152° in the c.m.s.). The resonance interaction of the protons and tritons at low energies offers evidence that the α particle has a virtual state at an excitation energy 20.3 ± 0.12 Mev with spin and parity 0^+ . "The author thanks I. Ya. Barit for continuous interest and direction of the work, I. M. Frank and F. L. Shapiro for suggesting the topic and support, Yu. G. Balashko and L. S. Dul'kova for help with the work, I. V. Shtranikh, D. A. Zaikin, and V. A. Sergeev for useful advice, his co-workers K. N. Kuznetsov, V. A. Artem'yev, V. A. Rozhkov, I. S. Matyatov, Yu.

40.50 49.50 49.55 49.55

Card 2/3

L 1973-66

ACCESSION NR: AT5018591

A. Rybakov, A. F. Ryzhenko, P. A. Peredkov, V. V. Yelkin, and I. V. Syutkina for help, and L. P. Konstantinova of the electronic computer group." Orig. art. has: 25 figures, 6 tables, and 19 formulas. 01
41.55

ASSOCIATION: Fizicheskij institut AN SSSR (Physics Institute, AN SSSR) 44.55

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 031

OTHER: 092

CC
Card 3/3

KUREPIN, A.V.

Proton scattering with tritium and detecting the excited of He sup 4.

Report to be submitted for the Conference on nuclear reactions and light nuclei
Dubna, December 1962

and 1, 2, 3.

Concerning the electric current system, see entry, 10-1-77, 10-1-77, 10-1-77, (1-1-77)

10-1-77

KUREPIN, I.

Beyond the Arctic Circle. Voen. Znan. 41 no.5-23 My '65. (MIRA 18:5)

1. Nachal'nik shtaba grazhdanskey oborony Noril'skogo medeplavil'nogo zavoda.

EDP/PII, 1.

Success begins with planning. Voen. znaniya. 41 no. 2: 1971. P. 105.

(REF ID: A66333)

1. Nachal'nik shtaba grazhdanskoy oborony mesteplavil'nogo zavoda,
Noril'sk.

KUREFIN, M. N., Eng. Cand. Tech. Sci.

Dissertation: "Selection of a Guide Slope for Transport in Open Pit Mining."
Moscow Mining Institute I. V. Stalin, 8 May 47.

SC: Vechernyaya Moskva, May, 1947 (Project #17836)

GUR'YEV, S.V., kand.tekhn.nauk; GOSTEV, V.I., inzh.; KUREPIN, M.N.,
kand.tekhn.nauk, retsenzent; DORFMAN, L.S., otv.red.; ORLOV,
Ye.I., red.izd-va; ANDREYEV, G.G., tekhn.red.

[Organization and operation of railroad transportation in open-
pit mining] Organizatsiia i ekspluatatsiia kar'ernogo zhelezno-
dorozhnogo transporta. Moskva, Ugletekhizdat, 1951. 239 p.
(MIRA 13:3)

(Mine railroads)

(Strip mining)

KUREPIN, V.
KUREPIN, V.; RABINOVICH, G.

Mechanized painting of buildings. Zhil.-kom. khoz. 8 no.2:18-19
'58. (MIRA 11:2)

1. Glavnyy inzhener remontno-stroitel'nogo tresta Dzerzhinskogo
rayona Leningrada (for Kurepin). 2. Nachal'nik proizvodstvenno-tekhnicheskogo
otdela remontno-stroitel'nogo tresta Dzerzhinskogo rayona
Leningrada (for Rabinovich).

(Spray painting)

KUREPIN, V.A.

Pseudoleucite rocks of Sokol Mountain in Gornaya Shoriya. Dokl.
AN SSSR 150 no.5:1131-1133 Je '63. (MIRA 16:8)

1. Predstavleno akademikom V.S.Sobolevym.
(Gornaya Shoriya—Pseudoleucite)

KUREPIN, V.A.

Alkali rocks of Siberia as raw material for the production of potassium fertilizers. Geol. i geofiz. no.9:3-9 '64. (MIRA 18:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

KUREPIN, V.A.

Pseudoleucite rocks in Mt. Sokol of Gornaya Shoriya. Geol. i geofiz.
no.2:21-31 '65. (MIRA 18:9)

1. Novosibirskiy gosudarstvennyy universitet.

KUREPIN, V.I.

Physical education in the complex treatment of patients with injuries of the semilunar cartilages of the knee joints. Zdrav. Belor. 6 no.3:46-47 Mr '60. (MIRA 13:5)

1. Iz voyennogo gosпитalya (nachal'nik gosпитalya - polkovnik meditsinskoy sluzhby Khiteyev).
(KNEE--WOUNDS AND INJURIES) (EXERCISE THERAPY)

SALAMOV, M.Yu.; KUREPIN, V.I.

Using sectional electric drills. Neft. khoz. 40 no.10:12-18 0 '62.

(MIRA 16:7)

(Karadag region--Oil well drilling, Electric)

15,2630

30484
S/146/61/004/005/009/011
D221/D305

AUTHORS: Kurepin, V.V. and Platunov, Ye.S.

TITLE: A device for high-speed wide-range thermo-physical tests of heat insulating and semi-conductor materials (a dynamical λ -calorimeter)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, v. 4, no. 5, 1961, 119-126

TEXT: The measurements take place in conditions of dynamic heating of specimens. The instrument consists of three main parts: λ -calorimeter for tests of heat conductivity, a - calorimeter for tests of temperature conductivity and a measuring panel. The λ -calorimeter contains a rod which forms the standard of heat capacity. The plate which is tested is placed between this rod and the base. The standard is made of Armco iron; its contact surfaces are ground. Thermocouples with "chromel" and "aluminum" electrodes are mounted at three points. The a-calorimeter has two identical

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30484
S/146/G1/004/005/009/011
D221/D305

A device for high-speed...

plates. The conjugated surfaces of the bases and the plates are ground. Two thermocouples are fixed within the facing surfaces of the base, one is placed between the plates. A system of water cooling is applied for the thermostatic control of external surfaces of calorimeters. The signals from thermocouples are measured by a potentiometer, the zero indication is given by a mirror galvanometer. The supply is ensured by a drop-down transformer, and a rheostatic control is provided for the heating elements of the calorimeters. The heat conductivity is determined by an equation which takes into account the thickness and the area of tested plates, average temperature during period τ , and other factors, including a correction coefficient. Some parameters are constants of the instrument. One $\lambda(t_c)$, is to be calculated analytically. The factor of the total heat resistance $R_c(t_n)$, depends on the type of contact lubricant used, and is determined by preliminary calibration. The temperature conductivity is calculated by

$$a(t) = \frac{\delta^2}{\Delta\tau_{o,\delta}(t) + \tau\Delta_{b-\delta}(t) - \Delta\xi_a(t)}, \quad (3)$$

Card 2/3

30484
S/146/61/004/005/009/011
D221/D305

A device for high-speed...

where $\Delta\tau_{\theta, \delta}(t)$ and $\Delta\tau_{\theta-\delta}(t)$ are time temperature drops determined during the experiments. The correction factor $\Delta\xi_a(t)$, is usually less than 3% of the denominator, and approximate data on heat capacity of the tested material are sufficient for its calculation. The instrument was checked on plates of optically pure quartz. The values obtained on the instrument were compared with established data; the difference did not exceed 3%. The instrument is recommended for mass tests of thermo-physical properties of solid and elastic materials whose heat conductivity is below 10 wt/m. degree. This article was recommended by the Kafedra teplovykh i kontrol'no-izmeritel'nykh priborov (Department of Thermal and Control-Measuring Instruments). There are 4 figures and 4 Soviet-bloc references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Precision Mechanics and Optics) X

SUBMITTED: February 27, 1961

Card 3/5

L 34863-66 EWT(d)/EWT(l)/EWP(e)/EWT(m)/EWP(v)/EWP(j)/T/EWP(t)/ETI/EWP(k)/EWP(h)/
ACC NR: AP5009181 EWP(l) SOURCE CODE: UR/0146/65/008/005/0126/0130

AUTHOR: Kurepin, V. V.; ^{IJP(e)}Platunov, Ye. S.
_{JD/WW/JG/RM/WH}

31
27
B

ORG: Leningrad Institute of Fine Mechanics and Optics (Leningradskiy institut
tochnoy mekhaniki i optiki)

TITLE: Metal heat-flow meter for thermophysical studies

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 5, 1965, 126-130

TOPIC TAGS: heat flux pickup, heat measurement

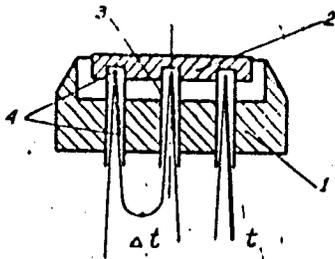
ABSTRACT: Existing heat-flow meters have a heat-insulation¹⁵ base which does not permit efficient leveling of temperature field in the work surfaces of the specimen, nor can such meters be used for simultaneous measurement of contact-surface temperature. Hence, a new heat-flow meter is suggested which has a metal base and is free from the above shortcomings. The new meter (see figure)

Card 1/2

UDC: 636.2.083

L 34863-66

ACC NR: AP6009181



4
consists of heat-resistant metal parts; its base 1 and contact plate 2 are rigidly connected (pressed or welded) by a few tubes 3. The tubes serve as a specified thermal connection between 1 and 2 and also house simple or differential thermocouples and a thermopile. The new meter was tested in measuring the thermal conductance of molten quartz and plexiglas. After one year of continuous operation, the new meters practically did not change their calibration and retained

their maximum error of $\pm 5\%$ in measuring coefficients of thermal conductance. Orig. art. has: 2 figures and 6 formulas.

SUB CODE: 13, 09 / SUBM DATE: 25May64 / ORIG REF: 004

Card 2/2 vmb

DUL'NEV, O. N. | FLATUNOV, E. S. | KURKPIN, V. V. | BURAVOV, S. E.

"Some new methods and equipment for the investigation of the thermal properties of materials developed at Leningrad Inst of Precise Mechanics and Optics."

Leningrad Inst of Precision Mechanics & Optics.

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710012-2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710012-2"

KURSEVA, V.V.; NASTUROV, Ye.S.

Metal thermometer used in thermophysical investigations.
Izv. vyzn. ucheb. zav.; prib. S no. 5, 1967, 130-136.

(MIRA 18-10)

L. Leningradskiy institut teobroy mekhaniki i optiki. Rekomendovana kafedroy teplovyykh i kontrol'no-izmeritel'nykh priborov.

L 42294-66 EWI(1) WW

ACC NR: AP6022065 SOURCE CODE: UR/0146/66/009/003/0127/0130

AUTHOR: Kurepin, V. V.; Platunov, Ye. S.

44
B

ORG: Leningrad Institute for Precise Mechanics and Optics
(Leningradskiy institut tochnoy mekhaniki i optiki)

TITLE: Instruments for investigating thermal diffusivity and heat capacity with monotonic heating

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 3, 1966, 127-130

TOPIC TAGS: thermal diffusivity, heat capacity, calorimeter

ABSTRACT: The article describes two new pieces of apparatus which are modifications of types previously described in the literature. In the first calorimeter for measuring the thermal diffusivity, the samples are disks with a diameter $2R = 15$ mm, the height of which is taken from the condition $2l = (10-20) \times \sqrt{a}$, and is usually from 4-12 mm. In the second calorimeter, for measuring the heat capacity, the samples are rods with a diameter of 15 mm and a height of 24 mm. Diagrams of both calorimeters are given. Calculating formulas are given for the use of both pieces of apparatus. Orig. art. has: 2 formulas and 2 figures.

SUB CODE: 20/ SUBM DATE: 30Mar65/ ORIG REF: 006

Card 1/1 *llh*

UDC: 536.629

KUREPIN, Yu.V.

Selecting plots for airplane seeding in Sverdlovsk Province.
Trudy Inst. biol. UFAN SSSR no.16:149-157 '60. (MIRA 13:10)
(Sverdlovsk Province--Afforestation)

KUREPIN, Yu.V.

Organizing shelterbelt forestry in the forest-steppe of the trans-Ural region. Trudy Inst. biol. UFAN SSSR no. 25:5-16 '61.

(MIRA 15:6)

(Ural Mountain region--Windbreaks, shelterbelts, etc.)

Country : USSR
Category : Microbiology-Antibiosis and Symbiosis. Antibiotics
Abs. Jour : Ref Zhur - Biol., No.19, 1958, 659-65
Author : Kurepina, D.V.
Institut. : Stalin Post-Graduate Medical Institute
Title : The Influence of Synthomycin and Sulfonamides on
Dysentery Bacilli in Patients
Orig. Pub. : Sb. Tr. Stalinsk. Inst. Uchebn. Vrachey, 1957,
Vol.27, 376-381
Abstract : no abstract

Card: 1/1

-14-

KUREPINA, D.P.

Use of a bile-glycerin medium in the bacteriological diagnosis of
dysentery. Lab.delo 4 no.6:41-44 N-D '58 (MIRA 11:12)

1. Iz kafedry mikrobiologii Stalinskogo instituta usovershenstvovaniya
vrachey.

(SHIGELLA PARADYSENTERIAE)
(BACTERIOLOGY---CULTURE MEDIA)

KHEYNMAN, A.S.; KARAU'L'SHCHIKOVA, R.V.; VOLKOVA, G.S.; PARFENOVA, N.M.;
SOLOV'YEV, S.M.; VOMPE, A.F.; ALEKSANDROV, I.V.; KUREPINA, G.F.;
IVANOVA, L.V.

Infrachromatic materials for scientific and technological purposes.
Zhur. prikl. spekt. 2 no.6:558-561 Je '65. (MIRA 18:7)

14. (1) T/EED(b)-3 Page-2 IJPC

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ASSOCIATION NR: AP5008230

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (All-Union

Research Institute of Cinematography); Institut obratnoy svyazi

SECRET

L 3837-66 EWT(1)/T/EED(b)-3 IJP(c)
ACCESSION NR: AP5017496

UR/0368/65/002/006/0558/0561
771.534

AUTHOR: Kheyman, A. S.; Karaul'shchikova, R. V.; Volkova, G. B.; Parfenova, N. M.;
Solov'yev, B. M.; Vompe, A. F.; Aleksandrov, I. V.; Kurepina, G. F.; Ivanova, L. V.

TITLE: Infrachromatic materials for scientific and technical purposes

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 6, 1965, 558-561

TOPIC TAGS: IR photography, photographic emulsion, photographic processing

ABSTRACT: The article summarizes the photographic properties of new infrachromatic films and plates developed at NIKFI (Scientific Research Institute of Motion Picture Photography) to increase the stability and sensitivity of infrachromatic materials used for spectroscopy, astro-photography, and other scientific purposes. Tables of the photographic characteristics of the films and plates are listed, and spectral sensitivity curves are given for all the emulsions. The appropriate development techniques are also discussed. The individual films are compared with those produced by Eastman Kodak. It is recommended in the conclusion that the available assortment of infrachromatic emulsions (11 types in the USSR) be reduced, since Eastman produces only four types which seem to meet all the requirements. Orig. art. has: 3 figures and 4 tables.

Cord 1/2

L 3837-66

ACCESSION NR: AP5017496

ASSOCIATION: none

SUBMITTED: 16 Feb 65

NR REF SOV: 000

ENCL: 00

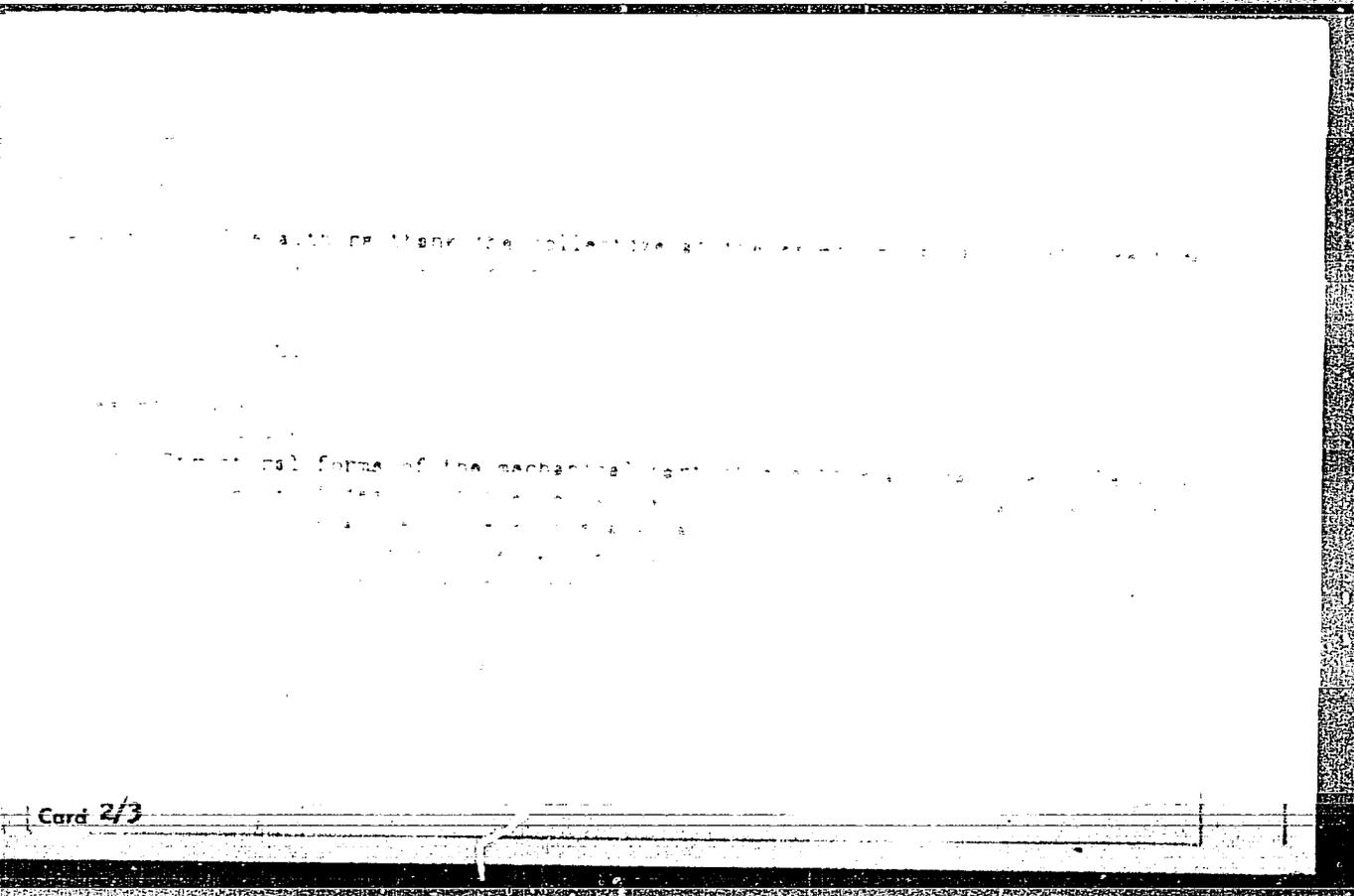
OTHER: 000

SUB CODE: OP, OP

beh
Card 2/2

TEFLITSKIY, B.M.; VITENBERG, Yu.R., kand. tekhn. nauk, retsentsent;
LEYKINA, T., red.; FURSEPINA, G.N., red.

[Dividing heads and their use] Delitel'nye golovki i rabota
na nikh. Moskva, Mashinostroenie, 1964. 215 p.
(MIRA 17:8)



Card 2/3

APPROVED

DATE: 11/11/64

SUBMITTED: 3Dec64

NR REF ID: 050

Card 3/3 *ny*

BUKIN, Yu.V.; KUREPINA, M.M.

"Human anatomy," textbook for pedagogical institutes. G.M.Pavlov
Reviewed by Yu.V. Bukin, M.M. Kurepina. Arkh.anat.gist. 1 embr.
32 no.1:87 Ja-Mr '55. (MLRA 8:9)
(ANATOMY, HUMAN) (PAVLOV, G.M.)

KUREPINA, M.M.

Development of the cell structures of the optic thalamus in the early and middle ontogeny of man. Uch. zap. MGPI no.168: 259-278 '62.

Development of the cell structures of the optic thalamus in the late ontogeny of man. Ibid.:279-306

(MIRA 19:2)

KURMPINA, M.M., prof.; SUKHAR'EV, V.I., red.; PONOMAREVA, A.A., tekhn. red.

[Programs of pedagogical institutes; human anatomy for natural science faculties in pedagogical institutes] Programmy pedagogicheskikh institutov; anatomia cheloveka dlia fakul'tetov estestvoznania pedagogicheskikh institutov. [Moskva] Uchpedgiz, 1956. 15 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy. (ANATOMY, HUMAN)

KUREPINA, Militsa Mikhaylovna; VOKKEN, Gens Gansovich; MARKOV, N.G., red.;
SHIRNOV, G.I., tekhn.red.; MAKHOVA, N.N., tekhn.red.

[Human anatomy; a manual for pedagogical institutes] Anatomia
cheloveka; uchebnik dlia pedagogicheskikh institutov. Moskva,
Gos.uchebno-pedagog.izd-vo M-va prosv. RSPSR, 1957. 354 p.
(ANATOMY, HUMAN) (MIRA 11:7)

KUREPINA, Militsa Mikhaylovna, prof.; VOKKEN, Gans Gansovich,
prof.; MARKOV, N.G., red.; MAKHOVA, N.N., tekhn. red.;

[Human anatomy; textbook for pedagogical institutes] Ana-
tomia cheloveka; uchebnik dlia pedagogicheskikh institutov.
Izd.2., dop. i isp. Moskva, Uchpedgiz, 1963. 355 p.
Atlas. 125 p. (MIRA 17:2)

BRUDNAYA, A.A., kand. sel'skokhoz. nauk; KUREFKO, I.A.; PARFILOVA, M. Ye,
kand. biolog. nauk; KOZAR', I.M., agronom; BEZPYATYKH, A.M.,
agronom-entomolog; KARGIN, V.N., agronom; KUZIYEV, S., aspirant;
TKHORIK, I.S.

From the practices in the use of poisonous chemicals. Zashch.
rast. ot vred. i bol. 9 no.10:26-27 '64 (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i pro-
duktov yego pererabotki (for Brudnaya, Kurepko).
2. L'vovskiy
avl'skokhozyaystvennyy institut (for Parfilova, Kozar').
3. Bakhchisarayskoye proizvodstvennoye upravleniye (for
Bezpyatykh).
4. Kolkhoz "Pobeda" (for Kargin).
5. Sredneaziat-
skiy institut zashchity rasteniy (for Kuziyev).
6. Zaveduyu-
shchiy otdelom zashchity rasteniy Yaroslavskoy opytnoy stantsii
(for Tkhorik).

КУРЬКОВ, А.И.

VINOGRADOV, V.M.; RAZUMOVSKIY, V.V.; SEROVA, L.V.; TARZIMANOV, P.F.;
KOZHEVNIKOV, O.V.; PICHUGIN, B.M.; PROKOP'EV, I.V.; FEDOROV, B.A.;
KOSHENTAYEVSKIY, V.S.; IVANOVA, A.S.; SNIGIREV, V.G., YASHCHENKO,
G.I.; VORONKOVA, Ye.A.; ZAMYATINA, A.A.; SERGEEV, N.A.; KUR'KOV,
A.I.; POPOV, B.L.; FINOGENOV, V.P., NABOROV, V.B.; CHENCHIKOVSKIY,
S.F.; IVANOV, Ye.A.; ALKHIMOV, V.S., red.; VINOGRADOV, V.M., red.;
SMIRNOV, A.M., red.; KAKHOVSKAYA, O.G., red. izd-va; HUDCHENKO,
A.M., red. izd-va; LEKANOVA, I.S., tekhn. red.

[Foreign commerce of the U.S.S.R. with capitalist countries] Vnesh-
nayaia torgovlia SSSR s kapitalisticheskimi stranami. Moskva, Vnesh-
torgizdat, 1957. 232 p. (MIRA 11:7)

1. Moscow. Nauchno-issledovatel'skiy kon'yunktornyiy institut.
(Russia--Commerce)

KURES, H.; MALEK, P.

Investigation on the pathogenesis of myasthenia and myotonia with reference to therapy. I. Effect of serum from the myasthenic patient on frog neuro-muscular preparation. Cas.lek.cesk. 90 no.34:1011-1014 24 Aug 51. (CJML 21:1)

1. Of the Institute of General and Experimental Pathology of Charles University (Head--Prof.J.Hepner,M.D.) and of the Second Surgical Clinic of Charles University (Head--Prof.J.Divis,M.D.), Prague.

1952, K.
(7 2671)

Z ustava pro vceob. a pokusnou path. K.U. v Praze, a z II. chir. klin. k. l. v Praze.
Pathogeneticky vyzkum myasthenie a myotenie se zretelem k terapii. Pokusna cast.
Steleni I. Vliv sera myasthenika na nervosvalovy preparat and research on the pathogenesis of myasthenia and myotonia with regard to treatment. Experimental part. I. The influence of the myasthenic serum on the neuromuscular preparation of frog; Cas. Lek. ces. 1951, 28/34 (1911-1914) Graphs 1 Tables 1 Illus. 2
The authors elaborated a method for the determination of the active factor in the blood of myasthenics. This factor augments in a striking way the muscular fatigability, studied on the neuromuscular preparation of the frog. In the registration of the isometric contractions of the neuromuscular preparation of frogs injected with serum of myasthenics, they found characteristic changes when compared with registrations of frogs injected with normal serum. A striking diminution of the muscular effect was found in registrations made on the same neuromuscular preparation after a rest. Examinations of and comments on 4 cases of myasthenia gravis pseudo-paralytica are given. In the repeated examination, the results are convincing. This method may be used in investigating the aetiology of myasthenia and myotonia and in the evaluation of the treatment of both diseases.

Honner - Prague (VIII, 6)

30: ENCEPUM MEXICUM Vol. 5 No. 7 Sec. VIII July 1952

KURES, Herman, As., dr.; MALEK, Prokop, As., dr.

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